INTERNATIONAL SEARCH REPORT

International application No.

PCT/US05/04412

OLA SOUTION OF SUBJECT MATTER						
A. CLASSIFICATION OF SUBJECT MATTER IPC(7) : F03C 02/00						
US CL : 418/206.7, 206.9, 132, 180, 189						
According to International Patent Classification (IPC) or to both national classification and IPC						
B. FIELDS SEARCHED .						
Minimum do	cumentation searched (classification system followed b	y classification symbols)				
	8/206.7, 206.9, 132, 180, 189					
	on searched other than minimum documentation to the	extent that such documents are included i	n the fields searched			
	on searched other than minimum documentation to the	extent that such documents are moraded i	if the ficial semanos			
NONE						
Electronic da	ta base consulted during the international search (name	e of data base and, where practicable, sear	ch terms used)			
NONE						
C. DOCI	UMENTS CONSIDERED TO BE RELEVANT					
	Citation of document, with indication, where ap	propriate, of the relevant passages	Relevant to claim No.			
Category *	US 5,403,173 A (JOY) 04 April 1995 (04.04.1995),		1, 3-6, 11, 12, 14, 15			
X	05 5,405,175 A (JOT) 04 April 1995 (04.04.1555),	oco ditilo dobullont.				
X	US 5,417,556 A (WADDLETON) 23 May 1995 (23	.05.1995), see entire document.	1, 12, 14, 15			
		, and the second				
x	US 6,390,793 A (SWEET et al.) 21 May 2002 (21.05	5.2002), see entire document.	1, 12, 14, 15			
		1070	2 17			
Y	US 3,770,332 A (DUNN) 06 November 1973 (06.11.	2, 17				
Y	US 5,538,355 A (BURR) 23 July 1996 (23.07.1996), see abstract.		7, 8, 9, 13, 16			
Y	US 3,499,390 A (PRIJATEL) 10 March 1970 (10.03.1970), see Fig. 1.		, 10			
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	1 to an listed in the continuation of Poy C	See patent family annex.				
	documents are listed in the continuation of Box C.		ational filing date or priority date			
• 8	pecial categories of cited documents:	and not in conflict with the application b	ut cited to understand the			
	defining the general state of the art which is not considered to be of	principle or theory underlying the invent	icn			
particular	relevance	"X" document of particular relevance; the cla	imed invention cannot be			
"E" earlier app	plication or patent published on or after the international filing date	considered novel or cannot be considere when the document is taken alone	d to involve an inventive step			
"L" document	which may throw doubts on priority claim(s) or which is cited to					
establish (the publication date of another citation or other special reason (as	document of particular relevance; the cla considered to involve an inventive step	when the document is combined			
specified)		with one or more other such documents,	such combination being obvious			
"O" document	referring to an oral disclosure, use, exhibition or other means	to a person skilled in the art				
	published prior to the international filing date but later than the	"&" document member of the same patent fa	mily			
priority date claimed						
Date of the a	ctual completion of the international search	Date of mailing of the international search report				
16 October 2005 (16.10.2005)		15 NOV 2005.				
		Authorized officer				
Name and mailing address of the ISA/US Mail Stop PCT, Attn: ISA/US		For 1) lake				
Commissioner for Patents		Theresa Trieu	J-			
	. Box 1450 xandria, Virginia 22313-1450	Telephone No. 571-272-4868	V			
Facsimile No. (703) 305-3230						

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Minimum documentation searched (classification system followed by classification symbols) U.S.: 418/206.7, 206.9, 132, 180, 189						
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched NONE						
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) NONE						
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Y	US 3,770,332 A (DUNN) 06 November 1973 (06.11.1973), see abstract.		2, 17			
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Y	US 3,499,390 A (PRIJATEL) 10 March 1970 (10.03.1970), see Fig. 1.		, 10			
Further documents are listed in the continuation of Box C. See patent family annex.						
Special categories of cited documents:		"T" later document published after the internand pot in conflict with the application b				
"A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier application or patent published on or after the international filing date		principle or theory underlying the invent.	ican			
		"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone				
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)		"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious				
"O" document referring to an oral disclosure, use, exhibition or other means		to a person skilled in the art				
"P" document published prior to the international filing date but later than the priority date claimed		"&" document member of the same patent far	nily			
Date of the actual completion of the international search		Date of mailing of the international search report				
	005 (16.10.2005)	15 NOV 2005, Authorized officer	- A			
Name and mailing address of the ISA/US Mail Stop PCT, Attn: ISA/US Commissioner for Patents		Theresa Tricu				
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